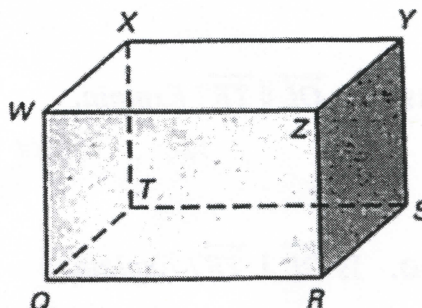


Think of each segment in the diagram as part of a line. Complete the statement with *parallel*, *skew*, or *perpendicular*.

1. \overline{WZ} and \overline{ZR} are ? *⊥ perpendicular*

2. \overline{WZ} and \overline{ST} are ? *|| parallel*

3. \overline{QT} and \overline{YS} are ? *skew*



4. Plane WZR and plane SYZ are ? *⊥ perpendicular*

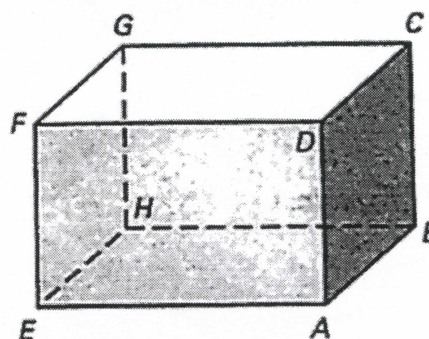
5. Plane RQT and plane YXW are ? *|| parallel*

Think of each segment in the diagram as part of a line. Which line(s) or plane(s) appear to fit the description?

6. Line(s) parallel to \overline{EH} *\overline{AB}
 \overline{CD}
 \overline{FG}*

7. Line(s) perpendicular to \overline{EH} *\overline{GH} \overline{HB}
 \overline{EF} \overline{EA}*

8. Line(s) skew to \overline{CD} and containing point F *\overline{EF}*



9. Plane(s) perpendicular to plane AEH *$ABCD$ $BCGH$
PLANES $ADFE$ $EFGH$*

10. Plane(s) parallel to plane FGC *PLANE $ABHE$*

In Exercises 17–20, use the markings in the diagram.

17. Name a pair of parallel lines.

$\overleftrightarrow{PM} \parallel \overleftrightarrow{QS}$

18. Name a pair of perpendicular lines.

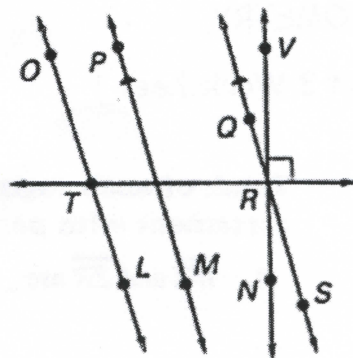
$\overleftrightarrow{VR} \perp \overleftrightarrow{TR}$

19. Is $\overleftrightarrow{OL} \parallel \overleftrightarrow{TR}$? Explain.

NO, THEY INTERSECT AT POINT T

20. Is $\overleftrightarrow{OL} \perp \overleftrightarrow{TR}$? Explain.

NO, $\angle OTR$ IS NOT MARKED AS A RIGHT ANGLE



Copy and complete the statement with *sometimes*, *always*, or *never*.

21. If two lines are parallel, then they ? intersect.

NEVER

22. If one line is skew to another, then they are ? coplanar.

~~NOT~~ NEVER

23. If two lines intersect, then they are ? perpendicular.

SOMETIMES

24. If two lines are coplanar, then they are ? parallel.

SOMETIMES